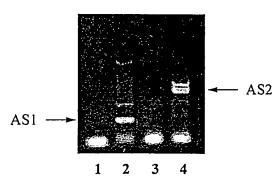
## SERINE PROTEASE PRIMERS



- 1) Normal Ovary 2) Tumor
- 3) Normal Ovary 4) Tumor

Figure 1 shows a comparison of PCR products derived from normal and carcinoma cDNA as shown by staining in an agarose gel. Two distinct bands (lane 2) were present in the primer pair sense-Hisantisense ASP-(AS1) and multiple bands of about 500 bp are noted in the carcinoma lane for the sense-Hisantisense-SER (AS2) primer pairs (lane 4).

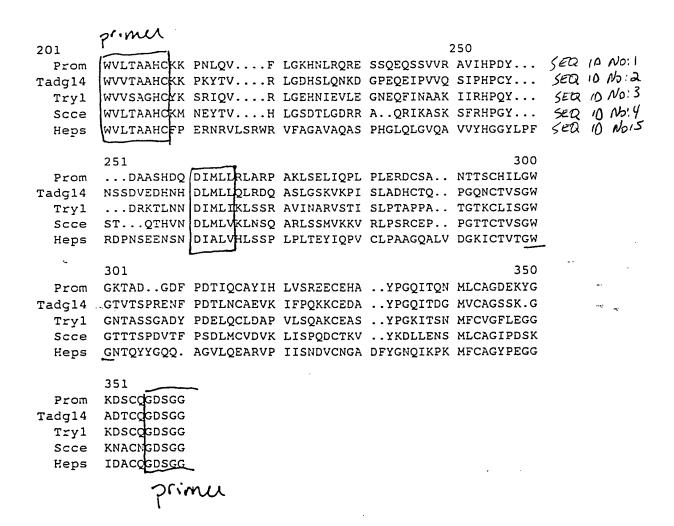
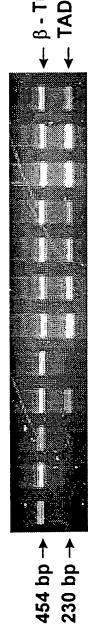


Figure 2. Comparison of amino acid sequence of TADG-14 with known serine protease catalytic domains.

## **OVER EXPRESSION OF TADG 14**

Normal
Normal
Serous Carcinoma
Carcinoma
Carcinoma
Cerous Carcinoma
Cerous Carcinoma
Cerous Carcinoma
Cerous Carcinoma
Cerous Carcinoma

Normal



Overexpression of TADG-14 in ovarian carcinomas. ω, •

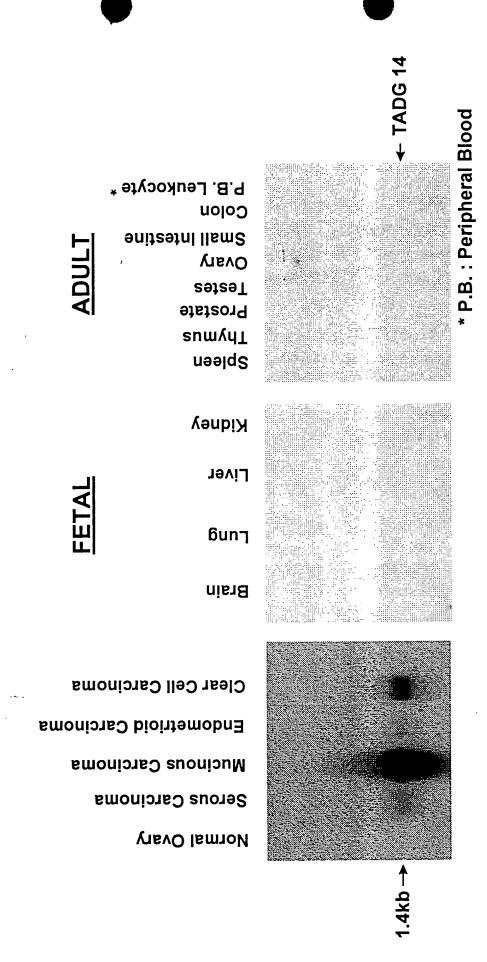
Colon Carcinoma
Prostate Carcinoma
Breast Carcinoma CL MDA-MB-231
Breast Carcinoma CL MDA-MB-231

Normal Colon

Ovarian Carcinoma CL Caov - 3

Ovarian Carcinoma CL SWS 626

igure 4. TADG-14 expression in tumors and cell lines.



Blots: TADG-14 expression in fetal, adult and ovarian carcinoma tissues. 5.

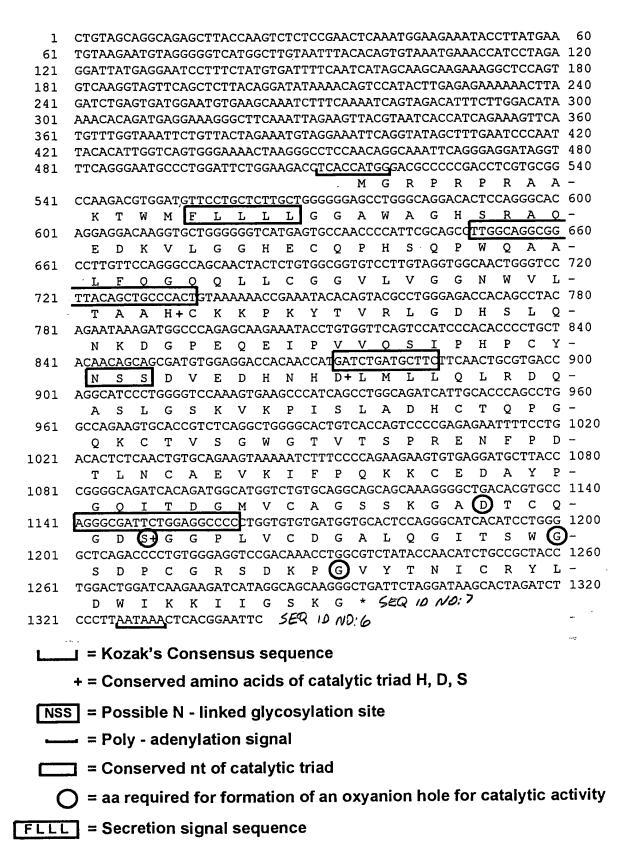


Figure 6. Complete sequence of TADG-14 transcript including ORF and common domains.

Figure 7. Pology of TADG-14 with mouse neuropsin. 76% identity for ORF. Low homology outside of ORF.

Percent Similarity: 76.471 Percent Identity: 76.471

Match display thresholds for the alignment(s):

= IDENTITY

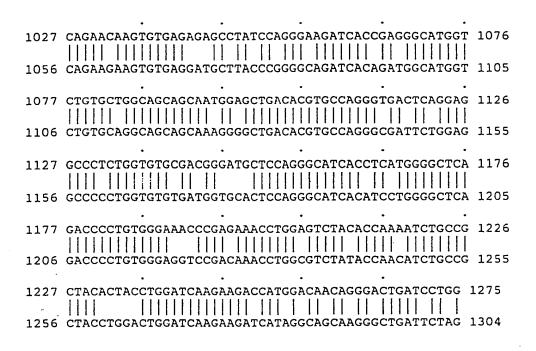
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. = 1

Neur.Nt x T14.Nt

May 7, 1997 08:33 ..

Neur	477	AGAGGCCACCATGGGACGCCCCCACCCTGTGCAATCCAGCCGTGGATCC	526
т14	506	AGACCTCACCATGGGACGCCCCGACCTCGTGCGGCCAAGACGTGGATGT	555
	527	TTCTGCTTCTGTTCATGGGAGCGTGGGCAGGGCTCACCAGAGCTCAGGGC	576
	556	TCCTGCTCTTGCTGGGGGGGGCCTGGGCAGGACACTCCAGGGCACAGGAG	605
	577	TCCAAGATCCTGGAAGGTCGAGAGTGTATACCCCACTCCCAGCCTTGGCA	626
	606	GACAAGGTGCTGGGGGGTCATGAGTGCCAACCCCATTCGCAGCCTTGGCA	655
		GGCAGCCTTGTTCCAGGGCGAGAGACTGATCTGTGGGGGTGTCCTGGTTG	
		GGCGGCCTTGTTCCAGGGCCAGCAACTACTCTGTGGCGGTGTCCTTGTAG	
		GAGACAGATGGGTCCTCACGGCAGCCCACTGCAAAAAACAGAAGTACTCC	
		GTGGCAACTGGGTCCTTACAGCTGCCCACTGTAAAAAACCGAAATACACA	
		GTGCGTCTGGGTGATCATAGCCTCCAGAGCAGAGATCAGCCGGAGCAGGA	
	777	GATCCAGGTGGCTCAGTCTATCCAGCATCCTTGCTACAACAACAGCAACC	826
	806	AATACCTGTGGTTCAGTCCATCCCACACCCCTGCTACAACAGCAGCGATG	855
	827	CAGAAGATCACAGTCACGATATAATGCTCATTCGACTGCAGAACTCAGCA	876
	856	TGGAGGACCACATGATCTGATGCTTCTTCAACTGCGTGACCAGGCA	905
	877	AACCTCGGGGACAAGGTGAAGCCGGTCCAACTGGCCAATCTGTGTCCCAA	926
	906	TCCCTGGGGTCCAAAGTGAAGCCCATCAGCCTGGCAGATCATTGCACCCA	955
		AGTTGGCCAGAAGTGCATCATATCAGGCTGGGGCACTGTCACCAGCCCTC	
		GCCTGGCCAGAAGTGCACCGTCTCAGGCTGGGGCACTGTCACCAGTCCCC	
		AAGAGAACTTTCCAAACACCCTCAACTGTGCGGAAGTGAAAATCTATTCC	
	1006	GAGAGAATTTTCCTGACACTCTCAACTGTGCAGAAGTAAAAATCTTTCCC	1055



<pre>Match display thresholds for the alignment(s):</pre>	·
T14pro.Jack x Neur.Jack May 8, 1997 09:27	
Tadg14 1 MGRPRPRAAKTWMFLLLLGGAWAGHSRAQEDKVLGGHECQPHSQPWQAAL	50
Neurop 1 MGRPPPCAIQPWILLLLFMGAWAGLTRAQGSKILEGRECIPHSQPWQAAL	50
51 FOGQOLLCGGVLVGGNWVLTAAHCKKPKYTVRLGDHSLQNKDGPEQEIPV	100
51 FQGERLICGGVLVGDRWVLTAAHCKKQKYSVRLGDHSLQSRDQPEQEIQV	100
101 VOSIPHPCYNSSDVEDHNHDLMLLQLRDQASLGSKVKPISLADHCTQPGQ	150
101 AQSIQHPCYNNSNPEDHSHDIMLIRLQNSANLGDKVKPVQLANLCPKVGQ	150
151 KCTVSGWGTVTSPRENFPDTLNCAEVKIFPQKKCEDAYPGQITDGMVCAG	200
:	200
201 SSKGADTCQGDSGGPLVCDGALQGITSWGSDPCGRSDKPGVYTNICRYLD	250
	250
251 WIKKIIGSKG 260	
· ·: 251 WIKKTMDNRD 260	

Percent Similarity: 77.220 Percent Identity: 72.201

Figure 8. Amino acid homology of TADG-14 with mouse neuropsin.

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